



# CALIFORNIA

## Agricultural Bulletin

**EDD** Employment  
Development  
Department  
State of California

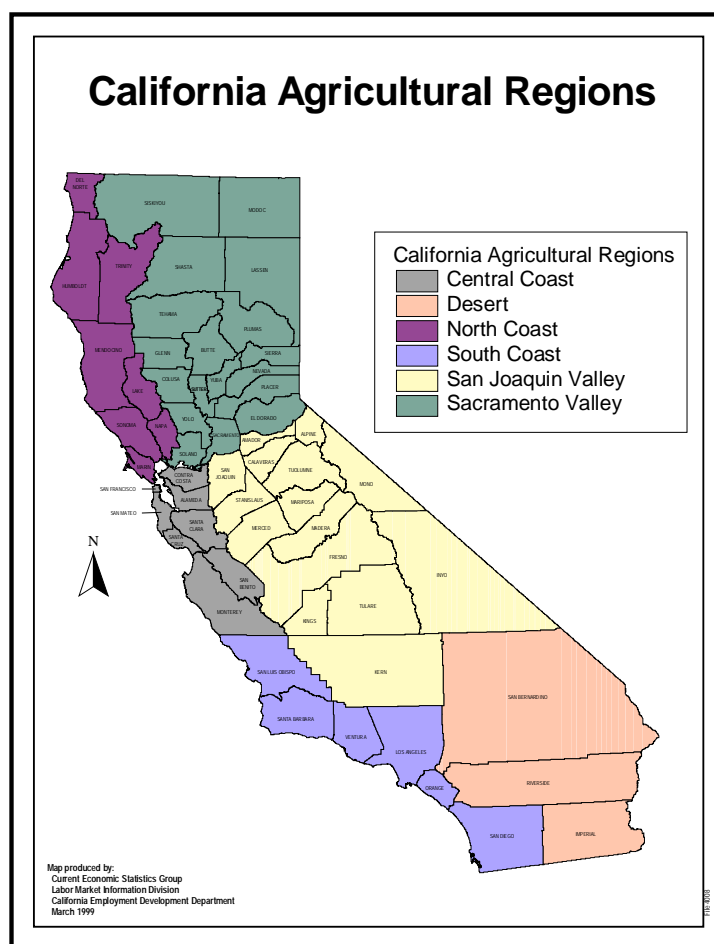
March 2000  
(Internet Version)

### Agricultural Overview

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This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

**LMID**  
Labor Market Information Division  
"Your Information Source"

## Introduction

The California Agricultural Bulletin is produced by the Employment Development Department (EDD) in cooperation with the U.S. Department of Agriculture and through a grant from the U.S. Department of Labor. Because of changes in sampling and estimating procedures, farm employment data published by EDD prior to January 1997 may not be strictly comparable to current estimates.

## Summary

### Employment

California agricultural employment for March 2000 decreased 5,600 jobs from the previous month, a loss of two percent. From February 2000 to March 2000, Agricultural Production/Crops registered an increase of 21,600 jobs, a gain of 16 percent. Agricultural Production/Livestock decreased by 8,100 jobs, a loss of three percent, and Agricultural Services registered a decrease of 19,100 jobs, for a loss of 14 percent. An increase in Agricultural Production/Crops from February to March is normal while employment in Agricultural Production/Livestock and Agricultural Services varies from year to year. The change in California agricultural employment from February 1999 to March 1999 was an increase of 400 jobs.

For the month of March 2000, the largest change in the number of jobs occurred in Farm Labor Contractors with a decrease of 17,100. Among Production Crops, the largest job increase occurred in Vegetables and Melons with a gain of 7,100. The largest decrease in jobs was registered in Grapes with a decline of 7,900 workers. Total agricultural employment increased in the Central Coast, North Coast, and South Coast regions while the Desert, San Joaquin Valley, and Sacramento Valley regions posted decreases.

### Production and Crop Activity

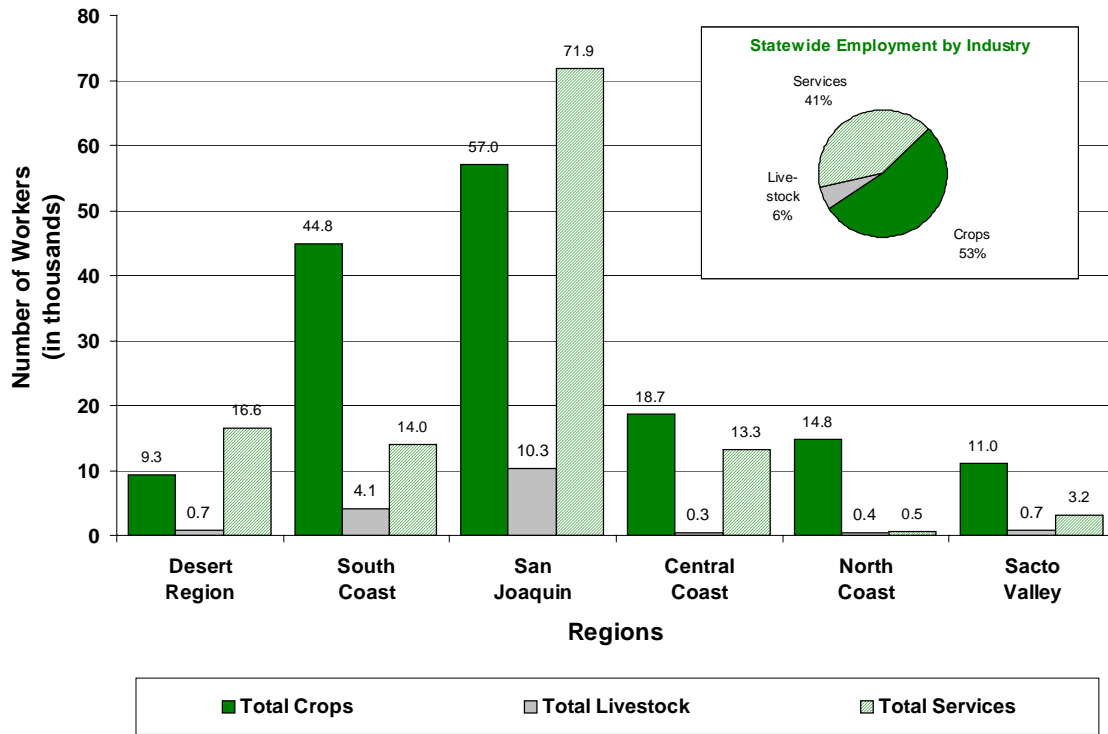
During the first part of the month, field activity was reduced by wet soil conditions in most areas. Farmers were making aerial applications of fertilizer and pesticides. Pre-plant weed treatments were applied to safflower and corn fields. Fields of wheat and oats also received weed treatments. Winter vegetables were harvested in southern California but other vegetable crops experienced harvesting delays due to wet conditions. By mid-month, improved weather conditions allowed fieldwork to resume in many areas. Growers prepared fields for corn planting. Alfalfa fields were treated for weevils and sugarbeets were cultivated and fertilized. Vegetables planted included tomatoes, sweet corn, peppers, onions, parsley, cilantro, melons, carrots, lettuce, squash, and cucumbers. During the latter part of the month, field activities accelerated as the ground continued to dry. Vegetable field activities were in full swing. Ground preparation for rice planting was also in full swing. In some areas, wheat and oats were cut for silage. Alfalfa was also cut for feed, silage, and hay. Cotton was planted and early sugarbeets were harvested. Vegetables harvested during the month included Asparagus, lettuce, carrots, spinach, broccoli, cabbage, cauliflower, cilantro, mushrooms, parsley, radishes, and turnips.

Warm, sunny weather later in the month allowed fruit and nut growers to plant new trees and vines. Picking of grapefruit and lemon crops was active in southern California. Oranges were harvested in the Desert and San Joaquin Valley areas. Tangerines and tangelos were also picked. Other orchard activities included weed control and fungicide applications.

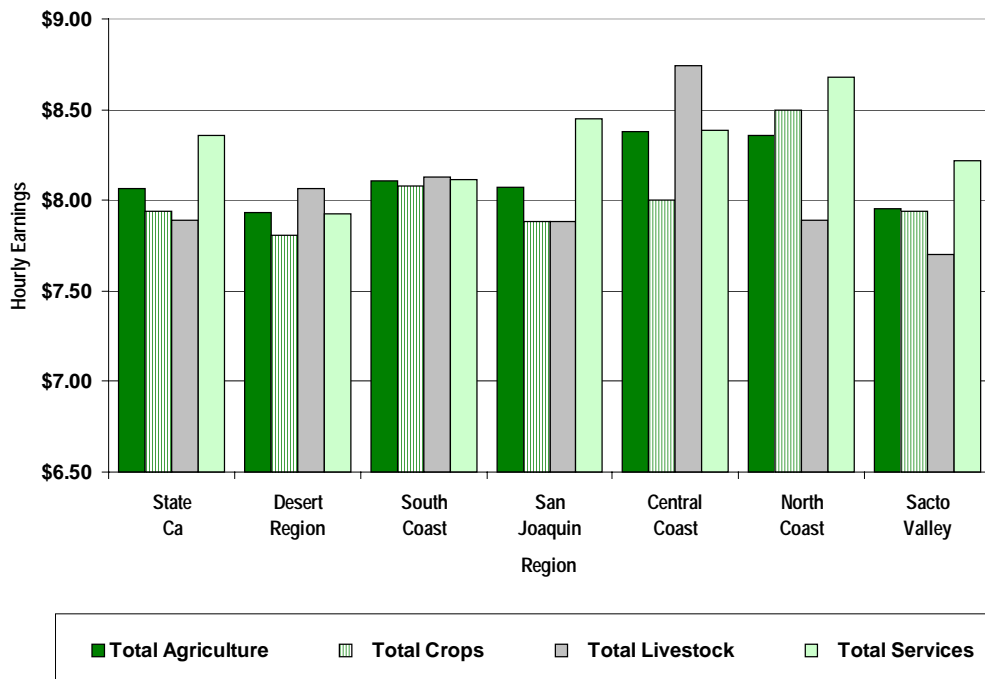
Sheep were moved from alfalfa fields to foothill pastures and cattle were moved to lower elevation pastures. Preparations were made to move bees out of prune, plum, and almond orchards. Some hives were placed in orange groves.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>291.8</b>	<b>297.4</b>	<b>299.5</b>
<b>Total Agricultural Production/Crops</b>	<b>155.8</b>	<b>134.2</b>	<b>156.2</b>
Cash Grains	2.4	1.8	1.7
Rice	1.5	1.5	0.8
Other Cash Grains	0.9	0.3	0.9
Field Crops Except Grains	11.5	10.9	9.5
Cotton	3.6	3.2	5.2
Other Field Crops	7.9	7.7	4.3
Vegetables and Melons	38.5	31.4	24.7
Total Fruits and Tree Nuts	59.4	56.8	66.0
Berries	14.6	9.4	15.1
Grapes	19.4	27.3	28.3
Tree Nuts	11.3	5.9	7.3
Citrus Fruits	1.2	1.0	4.3
Deciduous Tree Fruit	6.3	5.6	5.3
Other Fruits & Nuts	6.6	7.6	5.7
Total Horticultural Specialties	26.8	21.9	34.1
Ornamental Floral & Nursery	25.1	21.7	30.8
Food Crops Grown Under Cover	1.7	0.2	3.3
General Farm Primarily Crop	17.2	11.4	20.2
<b>Agricultural Production/Livestock</b>	<b>16.5</b>	<b>24.6</b>	<b>26.3</b>
Beef Cattle Feed Lots	1.3	1.6	0.7
Beef Cattle Except Feed Lots	1.4	1.3	2.8
Dairy Farms	8.1	11.9	15.2
Chicken Eggs	0.5	0.6	2.4
Turkey & Turkey Eggs	0.4	3.7	0.8
Other Livestock	4.8	5.5	4.4
<b>Total Agricultural Services</b>	<b>119.5</b>	<b>138.6</b>	<b>117.0</b>
Soil Preparation Services	1.4	0.3	1.7
Crop Services	32.4	39.5	34.6
Plant Cultivate & Protection	4.5	7.9	5.2
Harvest Primarily by Machine	2.4	2.7	4.9
Preparation Services for Market	24.8	27.6	23.6
Cotton Ginning	0.7	1.3	0.9
Total Farm Labor & Management	85.7	98.8	80.7
Farm Labor Contractors	77.4	94.5	72.9
Farm Management Services	8.3	4.3	7.8

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>8.06</b>	<b>8.09</b>	<b>8.03</b>
<b>Total Agricultural Production/Crops</b>	<b>7.94</b>	<b>7.97</b>	<b>8.03</b>
Cash Grains	8.43	8.57	8.14
Rice	8.34	8.49	8.04
Other Cash Grains	8.52	8.66	8.24
Field Crops Except Grains	7.77	7.94	8.13
Cotton	7.21	7.68	8.18
Other Field Crops	8.34	8.20	8.08
Vegetables and Melons	7.87	7.84	8.35
Total Fruits and Tree Nuts	7.66	7.68	7.66
Berries	6.98	7.17	6.51
Grapes	7.82	7.66	8.15
Tree Nuts	7.91	7.88	7.85
Citrus Fruits	7.77	8.05	7.83
Deciduous Tree Fruit	7.58	7.44	7.63
Other Fruits & Nuts	7.92	7.86	7.99
Total Horticultural Specialties	8.00	8.05	8.11
Ornamental Floral & Nursery	8.06	8.34	8.25
Food Crops Grown Under Cover	7.94	7.75	7.98
General Farm Primarily Crop	7.90	7.75	7.81
<b>Agricultural Production/Livestock</b>	<b>7.89</b>	<b>7.93</b>	<b>7.57</b>
Beef Cattle Feed Lots	8.02	8.41	7.72
Beef Cattle Except Feed Lots	7.99	8.06	7.81
Dairy Farms	8.11	7.95	8.28
Chicken Eggs	7.35	7.28	6.68
Turkey & Turkey Eggs	7.74	7.68	6.50
Other Livestock	8.15	8.22	8.46
<b>Total Agricultural Services</b>	<b>8.36</b>	<b>8.36</b>	<b>8.49</b>
Soil Preparation Services	8.65	8.68	8.98
Crop Services	8.58	8.45	8.77
Plant Cultivate & Protection	8.28	8.38	8.82
Harvest Primarily by Machine	8.60	8.38	9.37
Preparation Services for Market	8.04	7.73	7.76
Cotton Ginning	9.41	9.31	9.13
Total Farm Labor & Management	7.85	7.94	7.72
Farm Labor Contractors	7.57	7.50	7.53
Farm Management Services	8.13	8.39	7.90

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>32.3</b>	<b>25.9</b>	<b>38.7</b>
<b>Total Agricultural Production/Crops</b>	<b>18.7</b>	<b>16.2</b>	<b>23.4</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.8	0.6	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	0.8	0.6	0.2
Vegetables and Melons	5.5	4.7	7.9
Total Fruits and Tree Nuts	4.6	4.7	5.6
Berries	1.1	0.7	3.6
Grapes	0.3	0.7	1.3
Tree Nuts	0.4	0.4	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.8	0.6	0.4
Other Fruits & Nuts	2.0	2.3	0.1
Total Horticultural Specialties	7.1	6.0	8.4
Ornamental Floral & Nursery	6.5	6.0	6.3
Food Crops Grown Under Cover	0.6	0.0	2.1
General Farm Primarily Crop	0.7	0.2	1.3
<b>Agricultural Production/Livestock</b>	<b>0.3</b>	<b>0.3</b>	<b>0.9</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.3
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.3	0.3	0.3
<b>Total Agricultural Services</b>	<b>13.3</b>	<b>9.4</b>	<b>14.4</b>
Soil Preparation Services	0.8	0.0	0.9
Crop Services	4.8	4.2	5.0
Plant Cultivate & Protection	0.0	0.0	0.5
Harvest Primarily by Machine	0.2	0.1	0.9
Preparation Services for Market	4.6	4.1	3.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	7.7	5.2	8.5
Farm Labor Contractors	6.6	5.2	7.3
Farm Management Services	1.1	0.0	1.2

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>8.38</b>	<b>8.26</b>	<b>8.22</b>
<b>Total Agricultural Production/Crops</b>	<b>8.00</b>	<b>8.11</b>	<b>8.20</b>
Cash Grains	na	na	8.89
Rice	na	na	na
Other Cash Grains	na	na	8.89
Field Crops Except Grains	8.24	8.38	7.84
Cotton	na	na	na
Other Field Crops	8.24	8.38	7.84
Vegetables and Melons	8.53	8.18	8.90
Total Fruits and Tree Nuts	7.52	7.85	8.13
Berries	6.83	7.35	6.61
Grapes	8.05	8.05	8.15
Tree Nuts	7.45	8.00	7.85
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.16	7.81	8.59
Other Fruits & Nuts	8.13	8.05	9.43
Total Horticultural Specialties	7.64	8.58	8.05
Ornamental Floral & Nursery	7.88	8.58	8.11
Food Crops Grown Under Cover	7.40	na	7.98
General Farm Primarily Crop	8.09	7.57	7.42
<b>Agricultural Production/Livestock</b>	<b>8.74</b>	<b>8.62</b>	<b>7.65</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	7.81
Dairy Farms	na	na	8.28
Chicken Eggs	na	na	6.68
Turkey & Turkey Eggs	na	na	6.99
Other Livestock	8.74	8.62	8.49
<b>Total Agricultural Services</b>	<b>8.38</b>	<b>8.05</b>	<b>8.81</b>
Soil Preparation Services	8.22	8.19	9.15
Crop Services	8.58	8.17	9.02
Plant Cultivate & Protection	na	na	8.71
Harvest Primarily by Machine	8.81	8.32	9.64
Preparation Services for Market	8.35	8.01	8.70
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.35	7.80	8.25
Farm Labor Contractors	7.80	7.80	8.05
Farm Management Services	8.90	na	8.45

# DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>26.6</b>	<b>34.4</b>	<b>36.1</b>
<b>Total Agricultural Production/Crops</b>	<b>9.3</b>	<b>12.4</b>	<b>14.3</b>
Cash Grains	0.1	0.1	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	1.8	2.3	1.4
Cotton	0.0	0.1	0.0
Other Field Crops	1.8	2.2	1.4
Vegetables and Melons	3.7	6.0	4.5
Total Fruits and Tree Nuts	1.9	1.5	4.3
Berries	0.0	0.0	0.0
Grapes	1.1	0.5	2.1
Tree Nuts	0.1	0.1	0.1
Citrus Fruits	0.1	0.2	1.1
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	0.6	0.7	0.9
Total Horticultural Specialties	0.5	0.6	1.4
Ornamental Floral & Nursery	0.5	0.6	1.3
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	1.3	1.9	2.7
<b>Agricultural Production/Livestock</b>	<b>0.7</b>	<b>0.8</b>	<b>5.4</b>
Beef Cattle Feed Lots	0.0	0.0	0.3
Beef Cattle Except Feed Lots	0.0	0.0	0.5
Dairy Farms	0.4	0.4	2.8
Chicken Eggs	0.0	0.0	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.3	0.4	0.6
<b>Total Agricultural Services</b>	<b>16.6</b>	<b>21.2</b>	<b>16.4</b>
Soil Preparation Services	0.0	0.0	0.2
Crop Services	1.5	4.1	5.7
Plant Cultivate & Protection	0.3	0.8	0.4
Harvest Primarily by Machine	0.0	0.0	1.6
Preparation Services for Market	1.0	3.1	3.4
Cotton Ginning	0.2	0.2	0.3
Total Farm Labor & Management	15.1	17.1	10.5
Farm Labor Contractors	12.7	16.6	9.7
Farm Management Services	2.4	0.5	0.8

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>7.93</b>	<b>7.98</b>	<b>7.91</b>
<b>Total Agricultural Production/Crops</b>	<b>7.81</b>	<b>7.91</b>	<b>7.70</b>
Cash Grains	8.88	8.78	8.08
Rice	na	na	na
Other Cash Grains	8.88	8.78	8.08
Field Crops Except Grains	7.80	7.67	8.37
Cotton	na	7.50	na
Other Field Crops	7.80	7.84	8.37
Vegetables and Melons	7.31	7.44	6.98
Total Fruits and Tree Nuts	7.68	7.58	7.73
Berries	na	na	na
Grapes	7.36	7.43	7.19
Tree Nuts	7.71	7.25	7.73
Citrus Fruits	7.93	8.01	7.44
Deciduous Tree Fruit	na	na	7.63
Other Fruits & Nuts	7.70	7.64	8.64
Total Horticultural Specialties	7.93	8.17	8.37
Ornamental Floral & Nursery	7.93	8.17	8.73
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	7.25	7.80	6.70
<b>Agricultural Production/Livestock</b>	<b>8.07</b>	<b>7.97</b>	<b>7.88</b>
Beef Cattle Feed Lots	na	na	6.73
Beef Cattle Except Feed Lots	na	na	6.92
Dairy Farms	8.42	8.09	9.18
Chicken Eggs	na	na	7.15
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.71	7.85	9.42
<b>Total Agricultural Services</b>	<b>7.93</b>	<b>8.07</b>	<b>8.13</b>
Soil Preparation Services	na	na	8.66
Crop Services	8.39	8.17	8.64
Plant Cultivate & Protection	8.10	8.40	8.88
Harvest Primarily by Machine	na	na	9.75
Preparation Services for Market	8.07	7.30	6.95
Cotton Ginning	9.00	8.82	8.96
Total Farm Labor & Management	7.47	7.98	7.10
Farm Labor Contractors	7.49	7.60	7.30
Farm Management Services	7.44	8.35	6.90

# NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>15.7</b>	<b>10.5</b>	<b>13.1</b>
<b>Total Agricultural Production/Crops</b>	<b>14.8</b>	<b>8.6</b>	<b>9.8</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.1	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.1	0.0	0.0
Vegetables and Melons	6.2	4.1	0.1
Total Fruits and Tree Nuts	7.9	4.0	7.7
Berries	0.0	0.0	0.0
Grapes	7.0	3.2	6.6
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.2	0.4	0.9
Other Fruits & Nuts	0.7	0.4	0.1
Total Horticultural Specialties	0.1	0.2	1.8
Ornamental Floral & Nursery	0.1	0.2	1.6
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.5	0.3	0.2
<b>Agricultural Production/Livestock</b>	<b>0.4</b>	<b>1.5</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.1	0.2	0.1
Beef Cattle Except Feed Lots	0.1	0.1	0.2
Dairy Farms	0.2	1.1	0.9
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.0	0.1	0.3
<b>Total Agricultural Services</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	0.0	0.0	0.0
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.0	0.0
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	0.5	0.4	1.5
Farm Labor Contractors	0.0	0.0	0.3
Farm Management Services	0.5	0.4	1.2

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>8.35</b>	<b>8.60</b>	<b>8.62</b>
<b>Total Agricultural Production/Crops</b>	<b>8.49</b>	<b>8.30</b>	<b>8.88</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	9.12	na	na
Cotton	na	na	na
Other Field Crops	9.12	na	na
Vegetables and Melons	8.47	8.43	9.89
Total Fruits and Tree Nuts	8.13	8.19	8.05
Berries	na	na	na
Grapes	8.77	8.91	8.55
Tree Nuts	na	na	7.85
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.60	7.49	7.81
Other Fruits & Nuts	8.03	8.18	7.99
Total Horticultural Specialties	8.64	8.75	8.01
Ornamental Floral & Nursery	8.64	8.75	8.04
Food Crops Grown Under Cover	na	na	7.98
General Farm Primarily Crop	8.11	7.84	9.55
<b>Agricultural Production/Livestock</b>	<b>7.89</b>	<b>8.16</b>	<b>7.46</b>
Beef Cattle Feed Lots	8.28	8.94	7.72
Beef Cattle Except Feed Lots	7.94	8.38	8.86
Dairy Farms	7.45	7.17	7.26
Chicken Eggs	na	na	6.68
Turkey & Turkey Eggs	na	na	6.26
Other Livestock	na	8.16	7.98
<b>Total Agricultural Services</b>	<b>8.68</b>	<b>9.33</b>	<b>9.53</b>
Soil Preparation Services	na	na	9.85
Crop Services	na	na	na
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	na	na
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.68	9.33	9.21
Farm Labor Contractors	na	na	8.72
Farm Management Services	8.68	9.33	9.69

na = not available

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>62.9</b>	<b>62.6</b>	<b>60.9</b>
<b>Total Agricultural Production/Crops</b>	<b>44.8</b>	<b>32.1</b>	<b>44.3</b>
Cash Grains	0.4	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.4	0.0	0.1
Field Crops Except Grains	1.5	1.2	0.1
Cotton	0.0	0.0	0.1
Other Field Crops	1.5	1.2	0.1
Vegetables and Melons	9.4	6.0	7.0
Total Fruits and Tree Nuts	16.1	10.1	16.4
Berries	13.4	8.4	11.4
Grapes	0.3	0.0	1.8
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.8	0.7	1.4
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	1.6	1.0	1.6
Total Horticultural Specialties	14.1	12.9	16.6
Ornamental Floral & Nursery	13.2	12.9	15.8
Food Crops Grown Under Cover	0.9	0.0	0.8
General Farm Primarily Crop	3.3	1.9	4.1
<b>Agricultural Production/Livestock</b>	<b>4.1</b>	<b>4.5</b>	<b>1.9</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.5	0.1	0.3
Dairy Farms	0.6	0.7	0.2
Chicken Eggs	0.3	0.3	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	2.7	3.4	1.0
<b>Total Agricultural Services</b>	<b>14.0</b>	<b>26.0</b>	<b>14.7</b>
Soil Preparation Services	0.0	0.0	0.0
Crop Services	2.5	2.8	2.9
Plant Cultivate & Protection	0.6	0.6	0.5
Harvest Primarily by Machine	0.1	0.1	0.6
Preparation Services for Market	1.8	2.1	1.8
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	11.5	23.2	11.8
Farm Labor Contractors	10.1	21.7	10.8
Farm Management Services	1.4	1.5	1.0

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>8.11</b>	<b>8.10</b>	<b>8.18</b>
<b>Total Agricultural Production/Crops</b>	<b>8.08</b>	<b>8.09</b>	<b>8.17</b>
Cash Grains	8.11	na	8.62
Rice	na	na	na
Other Cash Grains	8.11	na	8.62
Field Crops Except Grains	8.26	8.44	8.24
Cotton	na	na	8.18
Other Field Crops	8.26	8.44	8.29
Vegetables and Melons	7.89	7.86	9.18
Total Fruits and Tree Nuts	7.70	7.58	7.75
Berries	6.61	6.77	6.40
Grapes	8.21	na	9.42
Tree Nuts	na	na	7.85
Citrus Fruits	7.75	8.06	8.38
Deciduous Tree Fruit	na	na	6.23
Other Fruits & Nuts	8.23	7.91	8.21
Total Horticultural Specialties	8.40	8.57	8.13
Ornamental Floral & Nursery	8.10	8.57	7.69
Food Crops Grown Under Cover	8.70	na	8.57
General Farm Primarily Crop	8.09	8.01	7.10
<b>Agricultural Production/Livestock</b>	<b>8.13</b>	<b>8.22</b>	<b>8.29</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.45	8.37	8.14
Dairy Farms	8.54	8.22	8.49
Chicken Eggs	7.45	7.42	6.46
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.08	8.88	10.05
<b>Total Agricultural Services</b>	<b>8.12</b>	<b>7.98</b>	<b>8.09</b>
Soil Preparation Services	na	na	na
Crop Services	8.39	8.19	8.54
Plant Cultivate & Protection	8.59	8.51	8.98
Harvest Primarily by Machine	8.57	8.50	8.75
Preparation Services for Market	8.00	7.55	7.90
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.85	7.78	7.65
Farm Labor Contractors	8.09	7.62	7.45
Farm Management Services	7.60	7.94	7.84

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>139.2</b>	<b>147.2</b>	<b>139.4</b>
<b>Total Agricultural Production/Crops</b>	<b>57.0</b>	<b>54.9</b>	<b>56.9</b>
Cash Grains	0.7	0.7	0.6
Rice	0.6	0.6	0.1
Other Cash Grains	0.1	0.1	0.5
Field Crops Except Grains	7.0	6.5	7.3
Cotton	3.6	3.1	5.1
Other Field Crops	3.4	3.4	2.2
Vegetables and Melons	10.8	8.0	4.8
Total Fruits and Tree Nuts	24.2	32.4	28.6
Berries	0.1	0.3	0.1
Grapes	9.8	21.8	15.8
Tree Nuts	9.5	4.4	5.1
Citrus Fruits	0.3	0.1	1.8
Deciduous Tree Fruit	4.0	3.4	3.0
Other Fruits & Nuts	0.5	2.4	2.8
Total Horticultural Specialties	3.9	1.1	5.1
Ornamental Floral & Nursery	3.9	1.1	5.1
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	10.4	6.2	10.5
<b>Agricultural Production/Livestock</b>	<b>10.3</b>	<b>16.5</b>	<b>15.2</b>
Beef Cattle Feed Lots	1.2	1.4	0.3
Beef Cattle Except Feed Lots	0.8	1.0	1.1
Dairy Farms	6.6	9.1	10.8
Chicken Eggs	0.2	0.3	0.6
Turkey & Turkey Eggs	0.4	3.7	0.6
Other Livestock	1.1	1.0	1.8
<b>Total Agricultural Services</b>	<b>71.9</b>	<b>75.8</b>	<b>67.3</b>
Soil Preparation Services	0.6	0.3	0.5
Crop Services	21.1	22.6	20.1
Plant Cultivate & Protection	3.3	6.2	3.5
Harvest Primarily by Machine	1.9	2.2	1.7
Preparation Services for Market	15.4	13.1	14.3
Cotton Ginning	0.5	1.1	0.6
Total Farm Labor & Management	50.2	52.9	46.7
Farm Labor Contractors	47.3	51.0	43.3
Farm Management Services	2.9	1.9	3.4

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>8.07</b>	<b>7.95</b>	<b>7.63</b>
<b>Total Agricultural Production/Crops</b>	<b>7.89</b>	<b>7.81</b>	<b>7.60</b>
Cash Grains	8.33	8.52	7.80
Rice	8.06	8.45	7.80
Other Cash Grains	8.59	8.59	7.80
Field Crops Except Grains	7.78	8.02	7.85
Cotton	7.21	7.85	8.18
Other Field Crops	8.34	8.19	7.51
Vegetables and Melons	7.53	7.72	7.18
Total Fruits and Tree Nuts	7.73	7.61	7.44
Berries	7.50	7.39	6.51
Grapes	7.77	6.85	7.43
Tree Nuts	8.08	8.41	7.94
Citrus Fruits	7.63	8.08	7.68
Deciduous Tree Fruit	7.66	7.12	8.11
Other Fruits & Nuts	7.71	7.78	6.99
Total Horticultural Specialties	7.99	7.69	7.79
Ornamental Floral & Nursery	7.99	7.69	8.20
Food Crops Grown Under Cover	na	na	7.37
General Farm Primarily Crop	7.97	7.33	7.54
<b>Agricultural Production/Livestock</b>	<b>7.88</b>	<b>7.71</b>	<b>7.31</b>
Beef Cattle Feed Lots	7.76	7.87	8.71
Beef Cattle Except Feed Lots	7.57	7.56	6.92
Dairy Farms	8.45	8.17	7.95
Chicken Eggs	7.25	7.14	6.42
Turkey & Turkey Eggs	7.74	7.68	6.26
Other Livestock	8.52	7.81	7.61
<b>Total Agricultural Services</b>	<b>8.45</b>	<b>8.33</b>	<b>7.98</b>
Soil Preparation Services	9.08	9.17	8.24
Crop Services	8.60	8.37	8.50
Plant Cultivate & Protection	8.29	8.27	8.17
Harvest Primarily by Machine	8.53	8.21	9.10
Preparation Services for Market	7.74	7.20	7.45
Cotton Ginning	9.82	9.80	9.29
Total Farm Labor & Management	7.66	7.46	7.19
Farm Labor Contractors	7.28	6.98	6.86
Farm Management Services	8.04	7.93	7.51

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>14.9</b>	<b>16.6</b>	<b>11.0</b>
<b>Total Agricultural Production/Crops</b>	<b>11.0</b>	<b>9.8</b>	<b>7.2</b>
Cash Grains	1.2	1.0	0.9
Rice	0.9	0.9	0.7
Other Cash Grains	0.3	0.1	0.2
Field Crops Except Grains	0.3	0.3	0.4
Cotton	0.0	0.0	0.0
Other Field Crops	0.3	0.3	0.4
Vegetables and Melons	2.9	2.6	0.4
Total Fruits and Tree Nuts	4.7	4.1	3.4
Berries	0.0	0.0	0.0
Grapes	0.9	1.1	0.7
Tree Nuts	1.3	1.0	1.7
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	1.3	1.2	0.8
Other Fruits & Nuts	1.2	0.8	0.2
Total Horticultural Specialties	0.9	0.9	0.7
Ornamental Floral & Nursery	0.9	0.9	0.7
Food Crops Grown Under Cover	0.2	0.2	0.0
General Farm Primarily Crop	1.0	0.9	1.4
<b>Agricultural Production/Livestock</b>	<b>0.7</b>	<b>1.0</b>	<b>1.2</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.1	0.4
Dairy Farms	0.3	0.6	0.4
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.4	0.3	0.4
<b>Total Agricultural Services</b>	<b>3.2</b>	<b>5.8</b>	<b>2.6</b>
Soil Preparation Services	0.0	0.0	0.0
Crop Services	2.5	5.8	0.9
Plant Cultivate & Protection	0.3	0.3	0.3
Harvest Primarily by Machine	0.2	0.3	0.1
Preparation Services for Market	2.0	5.2	0.5
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	0.7	0.0	1.7
Farm Labor Contractors	0.7	0.0	1.5
Farm Management Services	0.0	0.0	0.2

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2000	Feb 2000	Mar 1999
<b>Total Agriculture</b>	<b>7.95</b>	<b>8.13</b>	<b>8.02</b>
<b>Total Agricultural Production/Crops</b>	<b>7.94</b>	<b>7.93</b>	<b>8.16</b>
Cash Grains	8.56	8.57	8.05
Rice	8.61	8.52	8.28
Other Cash Grains	8.51	8.61	7.81
Field Crops Except Grains	8.26	8.17	8.39
Cotton	na	na	na
Other Field Crops	8.26	8.17	8.39
Vegetables and Melons	7.49	7.41	7.96
Total Fruits and Tree Nuts	7.69	7.46	7.33
Berries	na	na	na
Grapes	6.77	7.08	na
Tree Nuts	8.38	7.84	7.88
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.88	7.32	7.41
Other Fruits & Nuts	7.73	7.60	6.69
Total Horticultural Specialties	7.76	8.02	8.71
Ornamental Floral & Nursery	7.81	8.28	8.71
Food Crops Grown Under Cover	7.71	7.75	na
General Farm Primarily Crop	7.89	7.93	8.52
<b>Agricultural Production/Livestock</b>	<b>7.70</b>	<b>8.01</b>	<b>7.98</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	7.92	8.23
Dairy Farms	7.71	8.09	8.50
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.69	8.02	7.20
<b>Total Agricultural Services</b>	<b>8.22</b>	<b>8.47</b>	<b>7.92</b>
Soil Preparation Services	na	na	na
Crop Services	8.22	8.47	8.93
Plant Cultivate & Protection	8.12	8.33	9.37
Harvest Primarily by Machine	8.48	8.49	9.60
Preparation Services for Market	8.06	8.58	7.82
Cotton Ginning	na	na	na
Total Farm Labor & Management	na	na	6.91
Farm Labor Contractors	7.19	na	6.81
Farm Management Services	na	na	7.00

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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